THE CLEMENTINE MISSION TO GEOGRAPHOS, A NEAR-EARTH ASTEROID

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The US Department of Defense (Dod) Ballistic Missile Defense Organization's Deep Space Program Science Experiment Clementine Mission will be launched in late January 1994, orbit the **moon from late** February through early May 1994 and then proceed to fly by the near-earth asteroid Geographos in late August 1994. The Geographos flyby will be at a distance of about 100 km and at a speed of 10.6 km/s with the Clementine trajectory near the ecliptic plane and Geographos in its orbit which is inclined about 13 deg to the ecliptic. The Clementine Project is managed by the Naval Research Laboratory with the science instruments provided by the Lawrence Livermore National Laboratory and the science team provided by NASA. The remote sensing scientific instrumentation includes a LIDAR altimeter, a HiRes imaging camera, a UV/Vis camera, a NIR near infrared mapping spectrometer, a LWIR long wavelength infrared mapping spectrometer and a radio system providing doppler and ranging. A description of the spacecraft and science instrument payload will be presented together with the engineering and scientific objectives and expected results at Geographos.

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MSO: G. Schwchn (FRG)

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